

Strength and compressibility of Abqaiq marl, Saudi Arabia

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Abstract: Marl samples were prepared in the laboratory under controlled conditions and subjected to different tests. Samples were prepared at different moisture contents on both the wet and dry sides of optimum. X-ray diffraction analysis indicates that this marl contains high percentages of dolomite and calcite, in addition to other materials. The molding water content significantly affects the engineering properties of this material. Compaction on the dry side of optimum resulted in samples that have some swelling potential and highly compressible characteristics. -Author